SLC31 family of copper transporters in GtoPdb v.2023.1

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Abstract

SLC31 family members, alongside the Cu-ATPases are involved in the regulation of cellular copper levels. The CTR1 transporter is a cell-surface transporter to allow monovalent copper accumulation into cells, while CTR2 appears to be a vacuolar/vesicular transporter [5]. Functional copper transporters appear to be trimeric with each subunit having three TM regions and an extracellular N-terminus. CTR1 is considered to be a higher affinity copper transporter compared to CTR2. The stoichiometry of copper accumulation is unclear, but appears to be energy-independent [4].

Contents

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Please note that the database version for the citations given in GtoPdb are to the most recent preceding version in which the family or its subfamilies and targets were substantially changed. The links below are to the current version. If you need to consult the cited version, rather than the most recent version, please contact the GtoPdb curators.

Database links

SLC31 family of copper transporters
https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=218

Transporters
- CTR1(Copper transporter 1)
  https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1131
- CTR2(Copper transporter 2)
  https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=1132

References


